refer to P707.

"I think": d_n may not be a map from $E_n^{0,n-1}$ to $E_n^{n,0}$.

From

$$0 \longrightarrow \mathcal{J}_Z \longrightarrow \mathcal{O} \longrightarrow \mathcal{O}_Z \longrightarrow 0,$$

we have the exact sequence of global Ext's as below

$$\begin{array}{ccccc} \mathrm{Ext}^{n-1}(M;\mathcal{J}_Z,\Lambda^n\mathcal{E}^*) & \longrightarrow & \mathrm{Ext}^n(M;\mathcal{O}_Z,\Lambda^n\mathcal{E}^*) & \xrightarrow{d_n} & \mathrm{Ext}^n(M;\mathcal{O},\Lambda^n\mathcal{E}^*) \\ \Downarrow & & \Downarrow & & \\ e & \longmapsto & \bigoplus_{p\in Z} e_p & & \end{array}$$

$\Rightarrow$ By the spectral sequence relating global and local Ext's,

$$\mathrm{Ext}^n(M;\mathcal{O}_Z,\Lambda^n\mathcal{E}^*) \overset{\text{by P706}}{\cong} H^0(M,\underline{\mathrm{Ext}}_{\mathcal{O}}^n(\mathcal{O}_Z,\Lambda^n\mathcal{E}^*))$$
$$= H^0(M,\underline{\mathrm{Ext}}_{\mathcal{O}}^{n-1}(\mathcal{J}_Z,\Lambda^n\mathcal{E}^*))$$

since $\underline{\mathrm{Ext}}_{\mathcal{O}}^q(\mathcal{O}_Z,\Lambda^n\mathcal{E}^*)=0$ for $q<n$

$$0=\underline{\mathrm{Ext}}_{\mathcal{O}}^{n-1}(\mathcal{O},\Lambda^n\mathcal{E}^*) \longrightarrow \underline{\mathrm{Ext}}_{\mathcal{O}}^{n-1}(\mathcal{J}_Z,\Lambda^n\mathcal{E}^*) \xrightarrow{\cong} \underline{\mathrm{Ext}}_{\mathcal{O}}^{n}(\mathcal{O}_Z,\Lambda^n\mathcal{E}^*)$$
$$\longrightarrow \underset{\substack{\| \\ 0}}{\underline{\mathrm{Ext}}_{\mathcal{O}}^{n}(\mathcal{O},\Lambda^n\mathcal{E}^*)}.$$

$$\mathrm{Ext}^n(M;\mathcal{O},\Lambda^n\mathcal{E}^*) = H^n(M,\Lambda^n\mathcal{E}^*) \quad \text{by P706.}$$

Thus we do not need to use $\underline{\mathrm{Ext}}_{\mathcal{O}}^0(\mathcal{J}_Z,\Lambda^n\mathcal{E}^*)\cong\Lambda^n\mathcal{E}^*$.

Then clearly, since the sequence is exact,

$$d_n(\bigoplus_{p\in Z} e_p) = 0.$$

Here we followed the procedure along P729. ◿

「"Comment" $\mathrm{Ext}^{n-1}(M;\mathcal{J}_Z,\Lambda^n\mathcal{E}^*) \longrightarrow \mathrm{Ext}^n(M,\mathcal{O}_Z,\Lambda^n\mathcal{E}^*)$

$$\| \quad \bigoplus_{p\in} \underline{\mathrm{Ext}}_{\mathcal{O}}^{n-1}(\mathcal{J}_Z,\Lambda^n\mathcal{E}^*)_p$$