$$H^n(M, \Omega^0((\Lambda^n E)^*)) = H^n(M, \mathcal{O}(\Lambda^n E^*)) = H^n(M, \Lambda^n \mathcal{E}^*)$$

In terms of a local holomorphic frame $e_1, e_2, \cdots e_n$ for E and local holomorphic coordinates $z_1, z_2, \cdots z_n$ on M, a section

$$\psi \in H^0(M, \mathcal{O}(K \otimes \det E))$$

is

$$\psi = h(z) \, (dz_1 \wedge \cdots \wedge dz_n) \otimes (e_1 \wedge \cdots \wedge e_n).$$

Writing

$$s = s_1(z)\, e_1 + \cdots + s_n(z)\, e_n,$$

we consider the form

$$\frac{\psi}{s} = \frac{h(z)\, dz_1 \wedge \cdots \wedge dz_n}{s_1(z) \cdots\cdots s_n(z)}.$$

$$\begin{array}{c} E \\ \downarrow \uparrow s \\ M \end{array}$$ local section.

$\dfrac{\psi}{s}$ is a formal notation for $\dfrac{h(z)\, dz_1 \wedge \cdots \wedge dz_n}{s_1(z) \cdots\cdots s_n(z)}$.

Of course the right-hand side is not well-defined, but by the transformation formula the residue at a point $p \in Z$

$$(**) \qquad \mathrm{Res}_p\left(\frac{\psi}{s}\right) = \mathrm{Res}_p \left\{ \frac{h(z)\, dz_1 \wedge \cdots \wedge dz_n}{s_1(z) \cdots\cdots s_n(z)} \right\}$$

is independent of choices.