

" D_{λ_1, λ_2} is given as below

$$\left\{ \frac{s_{2,\alpha}}{s_{1,\alpha}}(z_1 \dots z_n) = -\lambda_1 \right\} \cap \left\{ \frac{s_{2,\alpha}}{s_{1,\alpha}}(z_1 \dots z_n) = -\lambda_2 \right\} "$$

Not correct. $f^{-1}(1, -\lambda_1, -\lambda_2)$ is not a divisor, since
 $\dim f^{-1}(1, -\lambda_1, -\lambda_2) = \dim M - 2$.