

l_before_eventlist_iff^{11,40}

$\forall E:\text{Type}, \text{pred?}:(E \rightarrow (?E)), a, b, e:E.$
 $\text{SWellFounded}((\neg(\uparrow\text{first}(y))) \text{ c} \wedge (x = \text{pred}(y) \in E))$
 $\Rightarrow (\text{l_before}(a; b; \text{eventlist}(\text{pred?}; e); E)$
 $\iff ((a \text{ rel_star}(E; (\lambda x, y. (\neg(\uparrow\text{first}(y))) \text{ c} \wedge (x = \text{pred}(y) \in E))) e)$
 $\quad \wedge (b \text{ rel_star}(E; (\lambda x, y. (\neg(\uparrow\text{first}(y))) \text{ c} \wedge (x = \text{pred}(y) \in E))) e)$
 $\quad \wedge (a \text{ rel_plus}(E; (\lambda x, y. (\neg(\uparrow\text{first}(y))) \text{ c} \wedge (x = \text{pred}(y) \in E))) b)))$